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Philips Medical Systems DMC GmbH

SERVICE MANUAL
732
UNIT

Release Bulletin PCR Preview Unit

R 1.1 L1

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SERVICE MANUAL - UNIT

Release Bulletin PCR Preview Unit R 1.1 L1

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4512 201 01401

In case there are any questions concerning this manual,
please send this LOPAD via fax to +49 40 5078 - 2481

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1 Introduction

This document contains:

- Release notes for the PCR Preview Unit (also called *Compano PC*)
- Procedures for installation and configuration of operating system and application software

Please note that the **complete software package must be installed** on the Compano PC **during initial installation** of the Compano system. Though Windows 2000 is pre-installed on the PC, it must be re-installed using the delivered bootable CD-ROM. Please follow the procedures described in chapter Inital Software Installation and Configuration on page 7 completely. Do not use the recovery function provided during startup of the PC ('IBM Product Recovery Program, press F11...').

1.1 Conventions Used In The Text

- Text required to be input is shown in **Arial, bold,** ***italics*** (e.g. : ***shutdown***) in the format in which it is to be typed in (i.e. : A mixture of capital and non-capital letters)
- Computer displays / responses are shown in `Courier` and `Bold` (e.g. : **`Press any key to continue`**)
- File names and directories are shown in **Arial** and **Bold** (e.g. : **/Program Files**)
- Keys are shown between the **< >** marks (e.g. : <**Enter**>, <**Esc**>, <**Y**> etc.)
- Soft keys are shown between the **[ ]** brackets (e.g. : [**OK**], [**Cancel**] etc.)
- When two or more keys are to be pressed at the same time, a + sign is used as a separator (e.g. : <CTRL> + <C>)
- Special attention to actions is preceded with the word **CAUTION.**
  (e.g. : **CAUTION : Do not switch off the system because**.....)
- **Check** means , **uncheck** means

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1.2 Abbreviations And Acronyms

BIOS	Basic Input / Output System
CR	Computed Radiogy
DHCP	Dynamic Host Configuration Protocol
DICOM	Digital Imaging and Communication in Medicine
DRR	Dynamic Range Reconstruction (Philips Image Processing algorithm)
EV	EasyVision
FTP	File Transfer Protocol
HIS	Hospital Information System
NFS	Network File System
PACS	Picture Archiving and Communication System
PCI	Peripheral Component Interconnect
PCR	Philips Computed Radiography
PDF	Portable Data Format
PPU	PCR Preview Unit
RIS	Radiology Information System
RU	Reader Unit = PCR Reader
TCP/IP	Transmission Control Protocol / Internet Protocol
USIT	PCR User Terminal
Server USIT	USIT with the Reader connected to it and with the database
Client USIT	USIT for entering data and linking image plates only
Reader USIT	Client USIT with Reader
Main EVRAD	EasyVision RAD with the main database
Workspot	Additional EasyVision, working as client

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2 Release Information

2.1 Supplied Software

Supplied Software
PCR Compano R1.1 L1 ..... 4512 201 01401
- 1 CD-ROM Application Software 4512 116 04401
- 1 CD-ROM Operating System (Windows 2000) 4512 116 04901
- This Release Bulletin

Please note that the Windows 2000 CD comes with an Service Pack 2 already integrated. The CD contains also the latest hotfixes for Windows 2000 (**Hot fixes**] which must be installed.

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3 Inital Software Installation and Configuration

Please note that the **complete software package must be installed** on the PCR Preview Unit **during initial installation** of the PCR Compano system. Though Windows 2000 is pre-installed on the PC, it must be re-installed using the delivered bootable CD-ROM. **Please follow the instructions in this chapter completely**. Do not use the recovery function provided during startup of the PC ('IBM Product Recovery Program, press F11...').

The following procedures have to be performed during initial installation of a PCR Preview Unit:

- Windows 2000 installation
- Setting up Windows (driver installation, keyboard layout, date&time, network, hotfixes...)
- Perform setup for Reader operations.
- Compano application installation and configuration

3.1 Before you begin

Please keep in mind that software installation and configuration can only be done when logged on as Administrator (except initial installation of Windows itself). To log on as Administrator please refer to paragraph **Log on as Administrator**. When installation has been entirely finished, the software is set-up to log on automatically as *user* when booting up the system.

If the system will be hooked up to a hospital network please contact the network administrator for getting the required network data like IP addresses etc.

The default factory set IP address for the Reader is 172.16.1.10. This IP address is initially used for setting up the Reader from the PC via the network. If the Reader is hooked up to a hospital network, it can be possible that the network administrator doesn't allow you to connect the Reader using the default IP address. In that case a seperate network hub should be used or, if not available, set up the Reader via serial port (see Release Bulletin PCR Compano Reader).

Before you proceed installing the software, have the following information ready:

- Net mask
- Address of the gateway/router (if any)
- IP addresses for PC, Reader, EasyVision
- Host names for PC, Reader, EasyVision
- DICOM application entity titles for Compano PC, EasyVision and USIT (if the option Modality Worklist Management is delivered)
- Administrator and user password for the Compano PC (if any)

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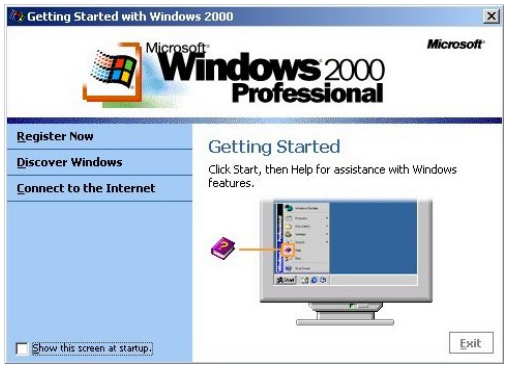
3.2 Installing Windows 2000

1. Make sure the PC is connected to the network. Switch on PC and monitor.
2. When the first messages are displayed on the screen press <**Pause**> to stop booting.
3. Insert the **Windows 2000** CD-ROM into the drive, then press any key to resume booting.
4. When **`Press any key to boot from CD`** is displayed : **press any key**.
5. If **`Starting Windows`** is displayed then the PC is booting from hard disk and not from CD. Switch off the PC and try again.

> If **`Press any key`** is not displayed the possibility exists that the BIOS is not set up to boot from CD. Please check the BIOS settings according to the Service manual **PCR Preview Unit/ Console Compano S**.

6. About 20 minutes later the Windows software installation is complete. The **Welcome** screen is displayed.



7. Uncheck ☐ Show this screen at startup. and click **[Exit]**.

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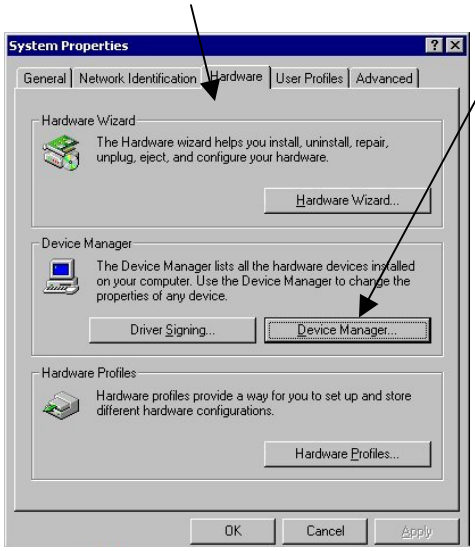
3.3 Installing Ethernet card drivers

1. Right-click

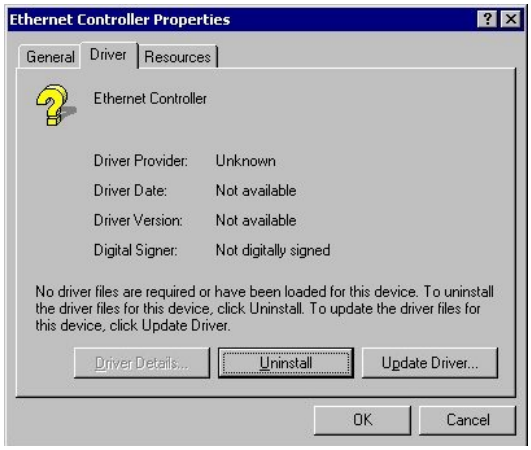
and select [**Properties**].

2. Select the **Hardware** tab and click **Device Manager**.


System Properties
General
Network Identification
Hardware
User Profiles
Advanced
Hardware Wizard
The Hardware wizard helps you install, uninstall, repair, unplug, eject, and configure your hardware.
Hardware Wizard...
Device Manager
The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.
Driver Signing...
Device Manager...
Hardware Profiles
Hardware profiles provide a way for you to set up and store different hardware configurations.
Hardware Profiles...
OK
Cancel
Apply

3. Double-click **Ethernet controller** to display its menu.

4. Click [**Driver**] tab and click [**Update Driver**].


Ethernet Controller Properties
General
Driver
Resources
Ethernet Controller
Driver Provider: Unknown
Driver Date: Not available
Driver Version: Not available
Digital Signer: Not digitally signed
No driver files are required or have been loaded for this device. To uninstall the driver files for this device, click Uninstall. To update the driver files for this device, click Update Driver.
Driver Details...
Uninstall
Update Driver...
OK
Cancel

5. The **Upgrade Device Driver Wizard** appears. Click [**Next**].

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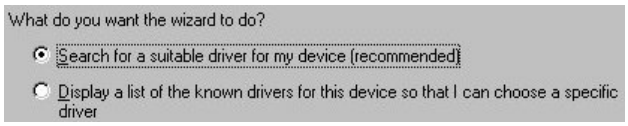
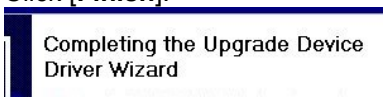
6. As [**Search for a suitable driver for my device**] is already selected, click [**Next**]:


What do you want the wizard to do?
Search for a suitable driver for my device (recommended)
Display a list of the known drivers for this device so that I can choose a specific driver

7. Check **CD-ROM drives** and click [**Next**].

8. The system should find the appropriate info file **net8255a.inf.**
   Click [**Next**]. The system copies files to hard disk.

9. Click [**Finish**].



10. Click [**Close**].

11. The Ethernet card should now be available:

12. Continue with installing the video drivers

3.4 Installing Video drivers

Depending on the delivered IBM PC there are different ways to install the drivers for the video card.
The current types of IBM PC used are: 6568 (Netvista A40, the white one) and 6790 (Netvista M41, the black one). The identification label can be found at the front cover of the PC.

3.4.1 Type 6558

1. Double-click **Video controller** to display its menu.

2. Click [**Driver**] tab and click [**Update Driver**].

3. The **Upgrade Device Driver Wizard** appears. Click [**Next**].

4. As [**Search for a suitable driver for my device**] is already selected, click [**Next**]:

5. As **CD-ROM drives** should be already selected, click [**Next**].

6. The system should find the appropriate info file **i81xnt5.inf.**

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7. Click [**Next**]. The system copies files to hard disk.

8. Click [**Finish**]:

9. Now the system asks to restart the computer. Click [**Yes**].

During restart the system asks to enter the password for the Administrator: click [**OK**].

3.4.2 Type 6790

1. Startup the Windows Explorer by pressing <Windows>+<E>.

2. Browse to the directory **IBM\Netvista M41\Drivers\Video** on the CD-ROM.

3. Double-click the file **Setup**.

4. At the **Welcome to the InstallShield Wizard** window click [**Next**].
   The system installs files.

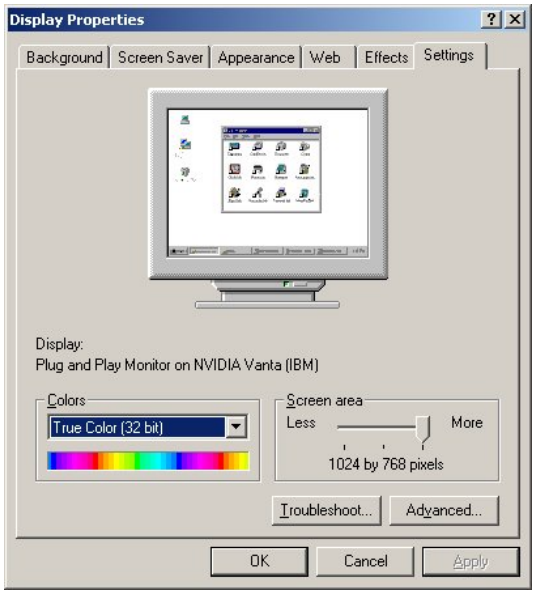
5. At the **InstallShield Wizard complete** window click [**Finish**].
   The systems performs a reboot.

During restart the system asks to enter the password for the Administrator: click [**OK**].

3.5 Setting up the display resolution and power management

3.5.1 Display Resolution

1. Right-click the desktop and click [**Properties**].
   The **Display Properties** window appears.



2. Select the **Settings** tab.

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3. Set **Colors** to: True color (24 or 32bit)
   Set **Screen Area** to: see table below

Display Size and Type	Resolution
15" LCD	1024 by 768
15" CRT	1024 by 768
17" LCD	1280 by 1024
17" CRT	1280 by 1024
18" LCD	1280 by 1024
18" CRT	1280 by 1024

   The table shows example settings which may not be the optimal choice for the display to be installed. Therefore refer also to the manual of the display for choosing the best resolution.

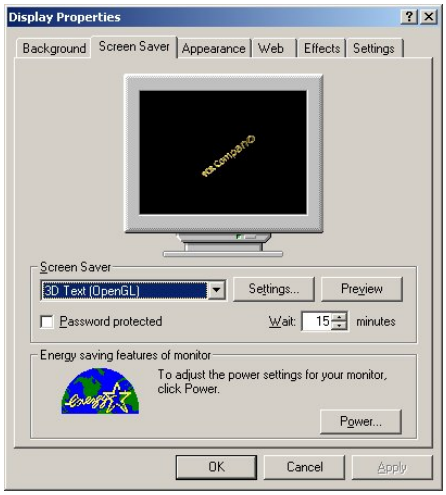
   Please note that LCDs use fixed resolutions. Using other resolutions force the display to interpolate the resolution, resulting in bad image quality.

4. Click [**Apply**] to confirm the **Confirm Desktop Change** window.

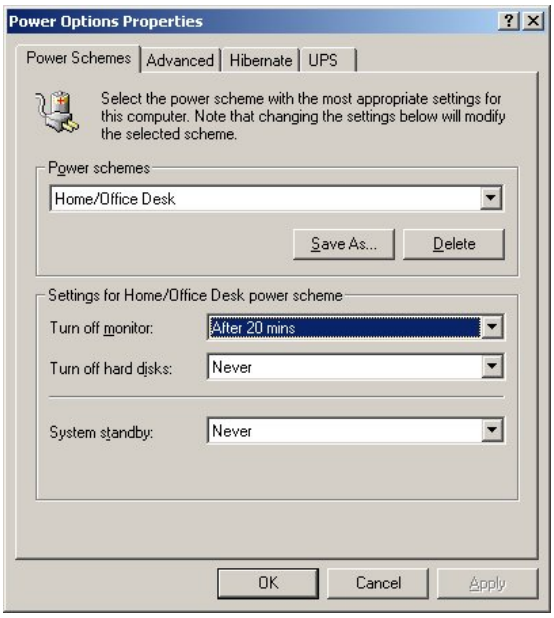
5. When asked to keep the settings, click [**OK**], then [**Yes**].
   Power Management

If the settings for the power management of Windows 2000 needs to be changed, follow the procedure below.

1. From the **Display Properties** window select the **Screen Saver** tab.



2. Click [**Power...**] to configure the Advanced Power Management.



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- Select the desired time for **Turn off monitor**.
- It is recommended to leave **Turn off hard disks** and **System standby** to **Never.**

3. When done click [**OK**] and again [**OK**] to close the **Display properties** window.

3.6 Installing Hotfixes for Windows 2000

1. Startup the Windows Explorer by pressing <Windows>+<E>.
2. Browse to the directory **Hot fixes** on the CD-ROM.
3. Double-click the file **Q300972_W2K_SP3_x86_en.EXE**. This hotfix is a security update against the so-called Code Red virus.
4. Follow the instructions on the screen.
5. When done, remove the CD-ROM from the drive.

3.7 Installing Touch Panel software

If a Touch Panel is used for visualization, a driver needs to be installed which came together with the Touch Panel.

If a Touch Panel is used which is not delivered by PMS Hamburg, install the software according to the associated documentation and skip this paragraph.

If a panel from **MicroTouch** is used follow the procedure below.

1. Insert the driver CD into the CD-ROM drive. The **TouchWare** install menu starts within a few seconds.
2. Click [**Install TouchWare**].

3. The **Welcome** screen is displayed, click **[Next]**.
4. The **License Agreement** window is displayed, click **[Yes]**.
5. Click **[Next]**:

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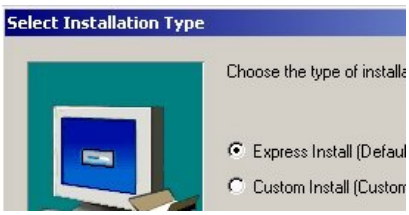
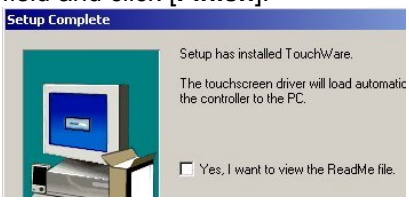
6. Click **[Next]**:



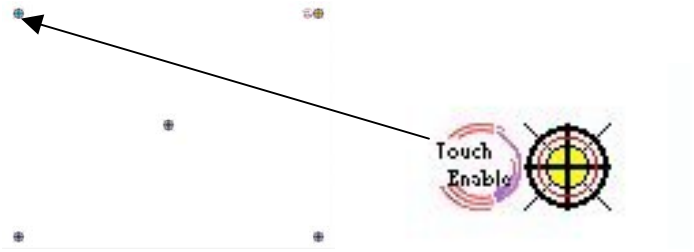
7. The system is copying files. When done, the system asks if the **ReadMe** file shall be viewed. Uncheck the field and click [**Finish**]:


Setup Complete
Setup has installed TouchWare.
The touchscreen driver will load automatic
the controller to the PC.
Yes, I want to view the ReadMe file.

8. Click [**Calibrate**]. The calibration screen opens.

MicroTouch Touchscreen
Welcome! MicroTouch TouchWare has been installed on your computer.
It is recommended that you calibrate the touchscreen for each video display setting.
OK
Calibrate
Do not remind me when display settings change.

9. With a finger gently touch the mark at the upper left of the window for at least **4 seconds** and wait until **Touch Enabled** is displayed. Proceed with the other marks (they blink in sequence).



10. When finished, the panel saves the calibration data.
    When prompted, click [**Done**].

11. Remove the CD from the drive.

For changing the settings of the touch screen (touch sensitivity, beep, speed of double-click, etc.) double-click the Microtouch icon on the desktop:

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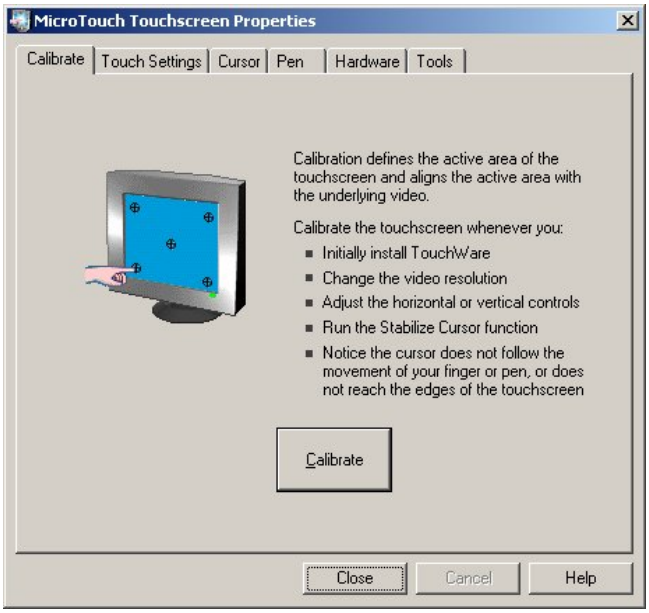
The Properties window opens:


MicroTouch Touchscreen Properties
Calibrate
Touch Settings
Cursor
Pen
Hardware
Tools
Calibration defines the active area of the touchscreen and aligns the active area with the underlying video.
Calibrate the touchscreen whenever you:
Initially install TouchWare
Change the video resolution
Adjust the horizontal or vertical controls
Run the Stabilize Cursor function
Notice the cursor does not follow the movement of your finger or pen, or does not reach the edges of the touchscreen
Calibrate
Close
Cancel
Help

Change the settings as needed.

3.8 Regional Settings

The **regional settings** (date & time format, keyboard layout) of Windows are **pre-configured** for the **U.S.A**. When the site is located in the U.S. this paragraph may be skipped.

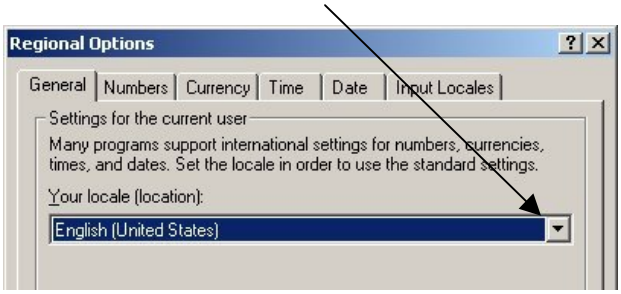
1. Double-click

, double-click

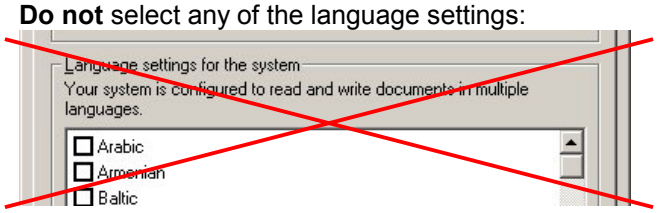
, double-click

.

2. Select a location from the list and click [**Apply**].



3. **Do not** select any of the language settings:


Language settings for the system
Your system is configured to read and write documents in multiple languages.
Arabic
Armenian
Baltic

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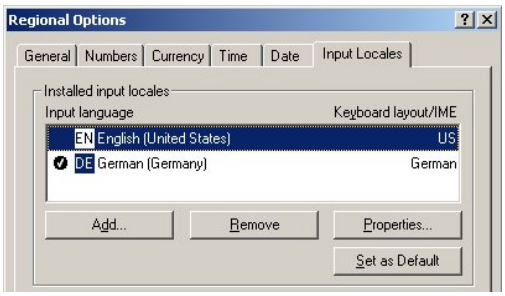
4. Click **Input Locales** tab.



5. Select **EN English (United States)** and click [**Remove**].

6. Click [**OK**] to confirm. An error message may be displayed telling that the driver is in use: click [**OK**].

7. Click [**X**] to close the **Control Panel** window.

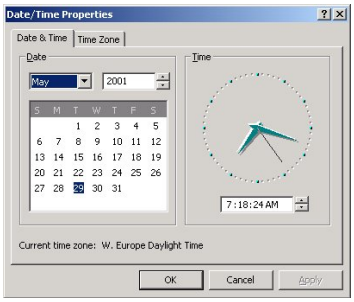
3.9 Setting date and time

This paragraph describes how to set date and time.

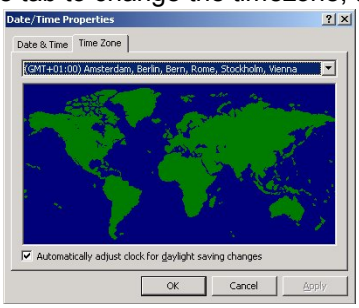
1. To set date, time and timezone settings double-click on the clock

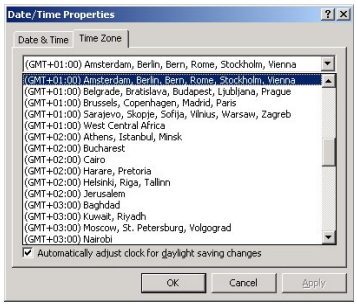
.

2. Set date and time accordingly.



3. Click the timezone tab to change the timezone, then select a timezone from the list. When done click [**OK**]:





3.10 LAN properties

1. Right-click

and select **[Properties]**.

2. Right-click

and select **[Properties]**.

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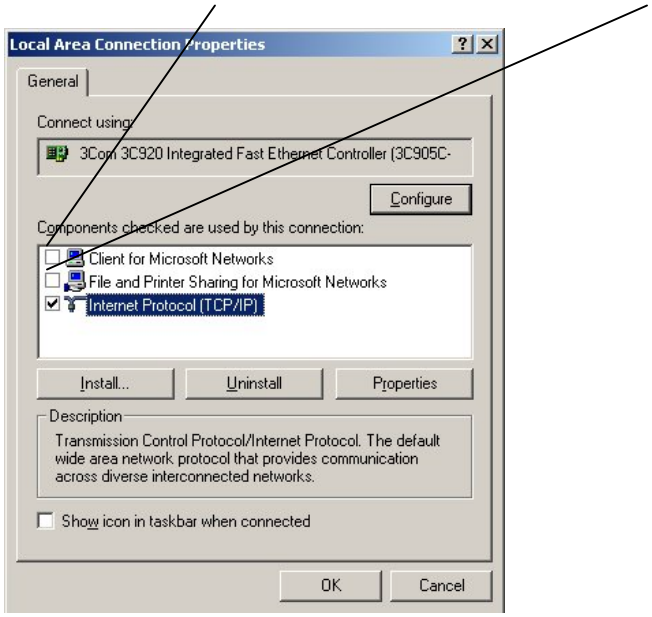
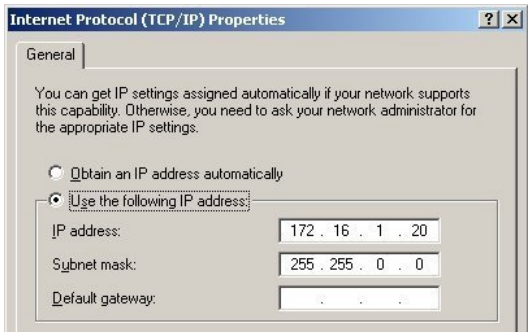
3. Uncheck **Client for Microsoft Networks** and **File and Printer Sharing...**



4. Select **Internet Protocol (TCP/IP)** , click [**Properties**].

5. Select **Use the following IP address** and enter values for IP address, netmask and (if applicable) gateway.


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 172 . 16 . 1 . 20
Subnet mask: 255 . 255 . 0 . 0
Default gateway:

6. Click [**OK**] to make changes effective.
   Depending on the selected configuration, closing the window may take some seconds. It is also possible that the system asks for a restart. You do not need to restart now since we have to do it later on anyhow.

7. Click [**OK**].

8. Click [**X**] to close the window.

9. Click [**X**] to close the window.

3.11 Changing the IP Name

The default IP node name for the PC is **compano-pc**. If it needs to be changed, follow the procedures in this paragraph.

> **Note:** If the computer name needs to be changed after the application software has been installed, the MSDE database must be un-installed. See chapter "Uninstalling the software".

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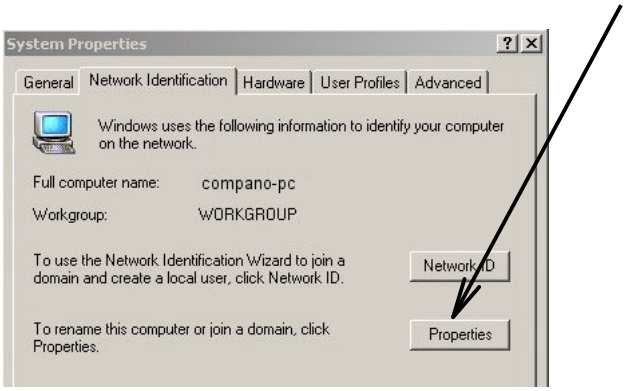
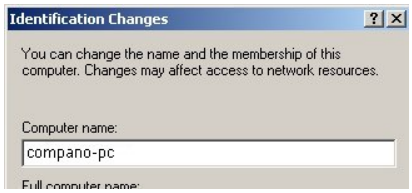
1. Right-click

and select **[Properties]**.

2. Select **Network Identification** tab and click [**Properties**].



3. Change the **Computer Name** : this is the host or IP name.


Identification Changes
You can change the name and the membership of this computer. Changes may affect access to network resources.
Computer name:
compano-pc

4. Click [**OK**].

5. The **You must reboot this computer** message is displayed: click [**OK**].

6. Click [**OK**] to close the **System Properties** window.

7. Now the system asks to restart the computer. Click [**Yes**].

9. During restart the system asks to enter the password for the Administrator: click [**OK**].

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3.12 Adding a User

Now we are going to create a user called "user".

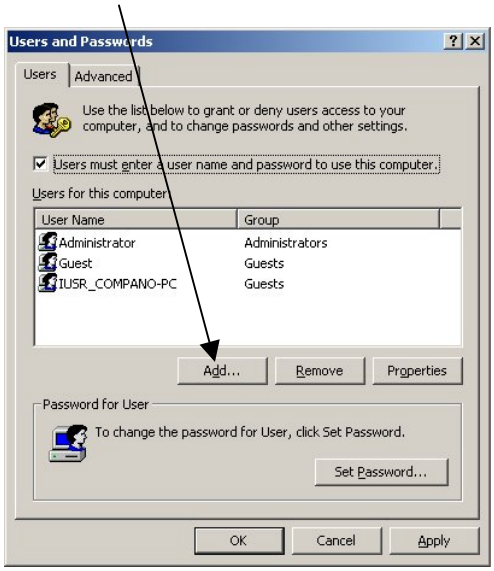
1. Double-click

, double-click

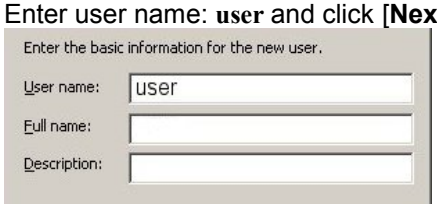
, double-click

.

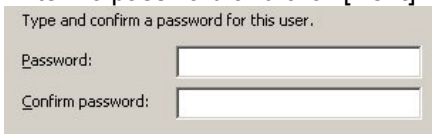
2. Click [**Add...**].



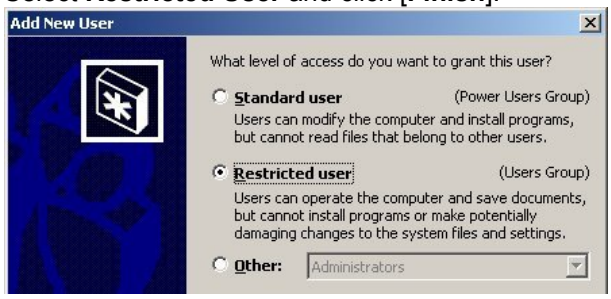
3. Enter user name: **user** and click [**Next**].



4. Enter no password and click [**Next**].



5. Select **Restricted User** and click [**Finish**].


Add New User
What level of access do you want to grant this user?
Standard user
(Power Users Group)
Users can modify the computer and install programs, but cannot read files that belong to other users.
Restricted user
(Users Group)
Users can operate the computer and save documents, but cannot install programs or make potentially damaging changes to the system files and settings.
Other:
Administrators

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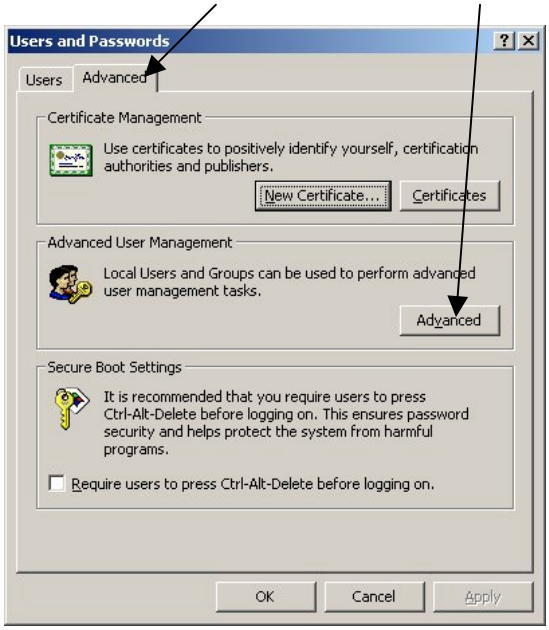
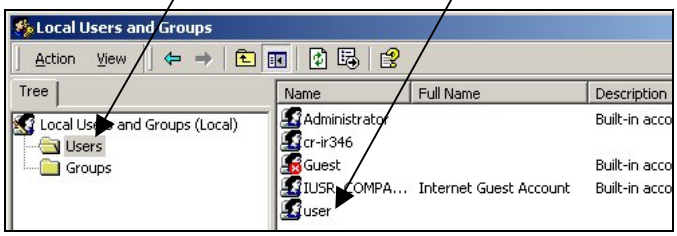
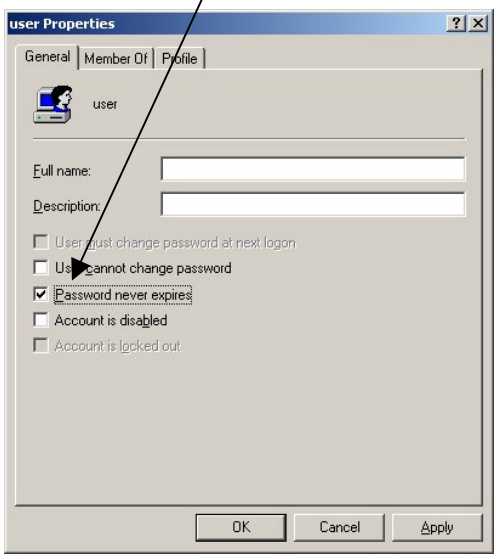
6. Select the **Advanced** tab and click [**Advanced**].


Users and Passwords
Users
Advanced
Certificate Management
Use certificates to positively identify yourself, certification authorities and publishers.
New Certificate...
Certificates
Advanced User Management
Local Users and Groups can be used to perform advanced user management tasks.
Advanced
Secure Boot Settings
It is recommended that you require users to press Ctrl-Alt-Delete before logging on. This ensures password security and helps protect the system from harmful programs.
Require users to press Ctrl-Alt-Delete before logging on.
OK
Cancel
Apply

7. Double-click **users** and double-click **user**.



8. Check **Password never expires** and click [**OK**].



9. Click [**X**] to close the **Local users and Groups** window.

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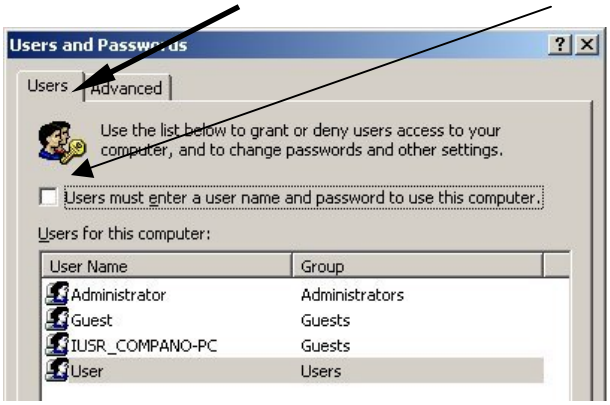
10. Select again the **Users** tab and uncheck **Users must enter a user name...**



11. Click [**OK**].

12. Enter the user name: ***user***, enter **no** password and click [**OK**].

Automatically Log On
You can set up your computer so that users do not have to type a user name and password to log on. To do this, specify a user that will be automatically logged on below:
User name:
user
Password:
Confirm Password:
OK
Cancel

13. Click [**X**] to close the **Control Panel** window.

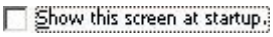
14. Now we need to log off as Administrator and log on as user to let Windows create the user account:
Click

, click

, select

and click [**OK**].

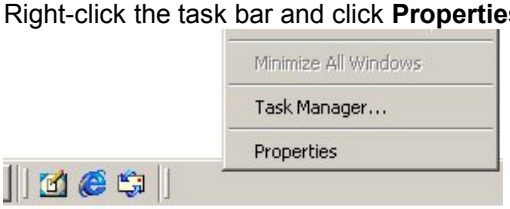
15. Enter the user name ***user*** and click [**OK**].

16. The **Welcome** screen is displayed: Uncheck 

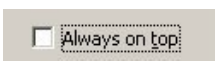
and click **[Exit]**.

3.13 Setting up the Task Bar

1. Right-click the task bar and click **Properties**.



2. Uncheck **Always on top** and click [**OK**].



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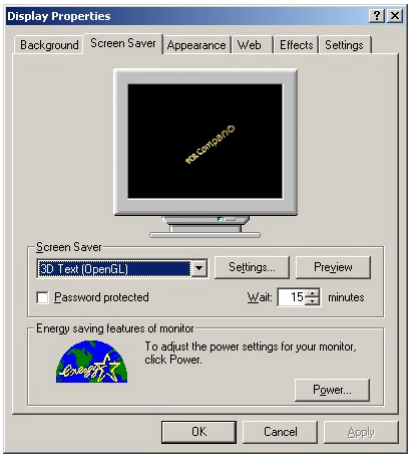
3.14 Setting up Screen Saver

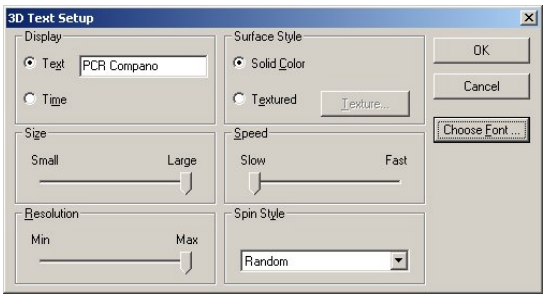
The screen saver must be configured when logged on as user since the application runs later on in user mode.

1. Right-click the Windows desktop and select **Properties**.



2. Select the screen saver : **3D Text (OpenGL).**

3. Click **Settings** and enter the text ***PCR Compano*** (or any other text the customer prefers).



4. When done click [**OK**].

5. Click [**OK**] to close the **Display properties** window.

3.15 Setting up the Touch Panel for the User

The following procedure needs to be done if there is a Microtouch touchscreen installed.

1. Double-click

on the desktop. The touchscreen properties appear.

2. Click [**Calibrate**] and calibrate the screen as done before for the Administrator mode.

3.16 Installing and setting up the Reader software

Now, we have to install software for the Reader. Therefore we have to log on again as Administrator:

1. Click

, click

, select

and click [**OK**].

2. Enter the user name ***Administrator*** and click [**OK**].

Please refer to the Release Bulletin for the Compano Reader software installation and configuration. When done, continue with paragraph 3.17.

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3.17 Configuring the FTP server

Now we need to configure the FTP user, allowing the Reader to access the Windows FTP server.

1. Double-click

, double-click

, double-click

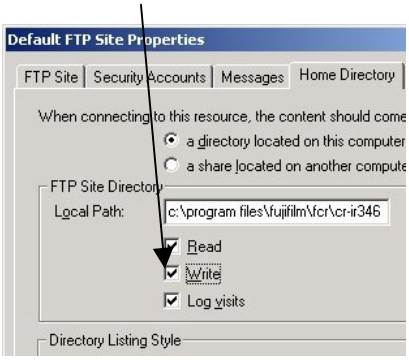
, double-click

2. Double-click on the PC icon in the left column (the computer name may differ).

3. Right-click **Default FTP Site** and select **Properties**.

4. Click **Home Directory** tab.

5. Check the **Write** box.



6. Click [**OK**].

7. Click [**X**] to close the window, and again click [**X**] to close the window.

3.18 Installing the Compano Application Software

1. While Windows desktop is displayed, insert the CD **PCR Compano 1.1 L1 Application Software** into the CD-ROM drive. Within a few seconds the setup is started.

2. The **License Agreement** window is displayed, click **[Yes]**.

3. The **Choose Destination** window is displayed, click **[Next]**. The system installs the Java files.

4. When the **Install Shield Wizard** is displayed, click **[Next]**.
   The application is installed.

5. When the **InstallationCompleted** window is diplayed, click [**Finish**].

6. Remove the CD from the drive.

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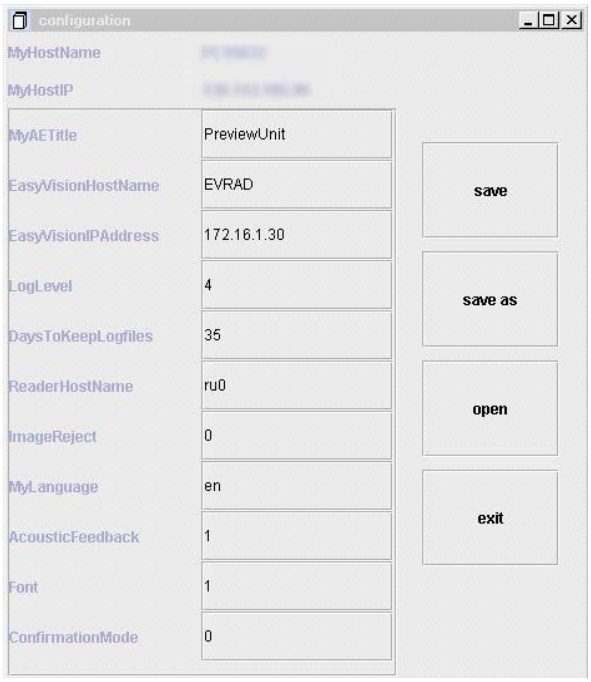
3.19 Compano Configuration

1. Double-click the **Configuration Compano** icon on the desktop.

2. Now enter the configuration data. When re-loading software, click [**OPEN**] and restore the backup file.



MyAETitle	DICOM Application Entity for this Preview Unit (must be the same as configured at EVRad at the Reader Node configuration) maximum 32 characters
EasyVisionHostName	EasyVision host name, maximum 32 characters
EasyVisionIPAddress	EasyVision IP address
LogLevel	1: log only FATAL errors 2: log additionally NON RECOVERABLE errors 3: log additionally USER RECOVERABLE errors 4: log errors and warnings 5: log all errors, warnings and information messages
DaysToKeepLogfiles	Number of days to keep logfiles, enter number 1 ... 100
ReaderHostName	Name of the Fuji Reader, maximum 32 characters
ImageReject	1 (ON): rejecting images possible (Reject button is visible), 0 (OFF): no image reject possible
MyLanguage	de - deutsch en - english fr - français sp - español
AcousticFeedback	1 (ON): acoustic feedback, 0 (OFF): no acoustic feedback (alarm beeps)
Font	1: small icons and fonts, 0: large icons and fonts
ConfimationMode	1 (ON): confirmation mode, 0 (OFF): automatic mode (images are send automatically to EV)

3. Click [**Save**] to save configuration.

4. Click [**Save**] at the confirmation window.

To make a backup of the configuration data, click [**save as**] and save the data to hard or floppy disk. When done, click [**Exit**] to end the configuration program.

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3.20 Configuring Remote Service Access

This paragraph describes how to set up an FTP connection for Remote Service access. Skip this paragraph if no remote access is needed.

1. Double-click

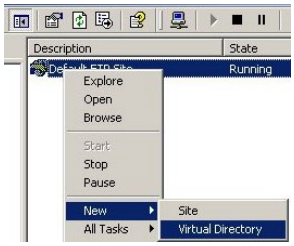
, double-click

, double-click

, double-click

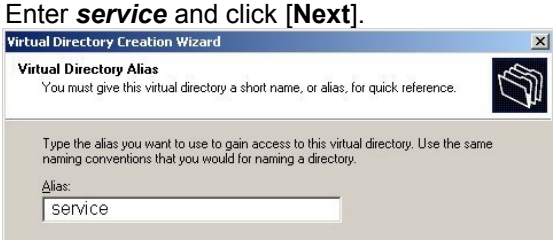
2. Click on the icon in the left column (the computer name may differ).

3. Right-click **Default FTP Site** and select **New** > **Virtual Directory**:



4. Click [**Next**].

5. Enter ***service*** and click [**Next**].


Virtual Directory Creation Wizard
Virtual Directory Alias
You must give this virtual directory a short name, or alias, for quick reference.
Type the alias you want to use to gain access to this virtual directory. Use the same naming conventions that you would for naming a directory.
Alias:
service

6. Enter ***c:\compano*** and click [**Next**].

Virtual Directory Creation Wizard
FTP Site Content Directory
Where is the content you want to publish on the FTP site?
Enter the path to the folder containing the content.
Path:
C:\Compano
Browse...

7. Click [**Next**].

Virtual Directory Creation Wizard
Access Permissions
What access permissions do you want to set for this virtual directory?
Allow the following:
Read
Write
Click Next to complete the wizard.

8. Click [**Finish**].

9. Click [**X**] to close the window, and again click [**X**] to close the window.

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3.21 Setting Administrator's Password

Now we need to set the administrator password.

1. Press <Ctrl> + <Alt> + <Del>. The **Windows Security** window opens.
2. Click [**Change Password**].
3. Enter the new password and confirm it:

4. The system prompts: **`Your password has been changed`**. Click [**OK**].
5. Click [**OK**].
6. In the **Windows Security** window click [**Cancel**].

3.22 Finish

Setting up the PCR Preview Unit is now done. To continue with the system installation follow the procedures described in the **Installation Manual PCR Compano System**.

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4 Reloading Software

When the software needs to be reloaded, it is adviced to remove the previously installed software prior re-loading software. To remove software packages, please follow the instructions in paragraph **Removing Programs**. If Windows needs to be reloaded no program needs to be removed since the hard disk is formatted anyhow.

For installing the complete software or single software packages please follow the belonging paragraphs in chapter **Software Installation**.

4.1 Removing Software

Please note: Removing software can only be performed when logged on as administrator.

1. Double-click My Computer, double-click Control Panel, double-click Add/Remove Programs.

2. To remove a software package, select the software to be removed, click [**Remove**] and follow the instructions of the uninstall program. When done click [**Close**].

Compano	:	Compano application software
FCR TOOL	:	Reader maintenance utility
IIS Script	:	FTP server, etc.
Java 2 Runtime...	:	Java software used for the Compano application

4.1.1 Compano Software

When removing the Compano software the following files or folders manually must be deleted additionally:

c:\Compano\db
c:\Compano\properties
c:\Compano\ExportQueue

Before removing the Compano software make sure a proper backup of the configuration data exists because the configuration file is deleted during removal of the software package.

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5 Servicing the Compano PC

5.1 Logging on as Administrator (Service)

To reach the Compano configuration program and to maintain the Windows 2000 operating system you need to log on as administrator following the procedure described below.

1. While the application software is already running, hold down <**Shift**> and click

.
2. Release <**Shift**> and click [**Confirm**]. The system returns to the Windows desktop.
3. Click

, click

, select

and click [**OK**].
4. Now enter the user name ***administrator*****,** enter the password and click [**OK**].
5. When done, log off as administrator and log on as user.
   To start the Compano application, click

, then select **Programs > Startup > Compano.**

5.2 Changing Administrator's Password

To change the password for the Administrator:

1. Press <Ctrl> + <Alt> + <Del>. The **Windows Security** window opens.
2. Click [**Change Password**].
3. Enter old password, new password and confirm the new password:

4. The system prompts: **`Your password has been changed`**. Click [**OK**].
5. Click [**OK**].

In the **Windows Security** window click [**Cancel**].

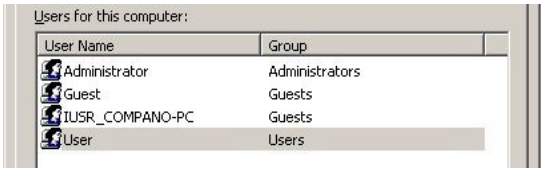
5.3 Changing User's Password

1. Double-click

, double-click

, double-click

2. Select **User**.



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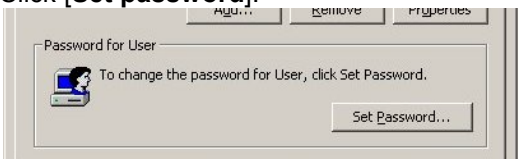
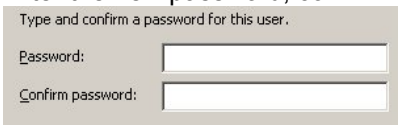
3. Click [**Set password**].



4. Enter the new password, confirm it and click [**OK**].



5. Click [**OK**] to close the window, click [**X**] to close the **Control Panel** window.

5.4 Changing the IP Addresses for Compano PC and Reader

Change the IP addresses for the Console and Reader as summarized below:

- Changing the Reader configuration file (on the hard disk of the PC), 5.4.1
  Perform this step if the address for the Reader and/or the PC needs to be changed
- Changing the IP address of the PC, 5.4.2
  Perform additionally this step if the address for the PC needs to be changed
- Verifying the connection after IP address changes

Please note that the procedures musted be followed in the described order, otherwise the possibility exists that the Reader cannot be reached anymore via the network since IP addresses and net masks may possibily not match. In that case there is still the possibility to reach the Reader via serial connection. See chapter **Servicing the Reader via serial port** in the Release Bulletin for the Reader.

5.4.1 Changing the Reader configuration file

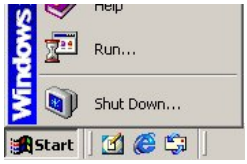
1. Turn ON the Reader power.

2. At the Compano PC: log on as Administrator (see paragraph **Logging on as Administrator (Service)** on page 28).

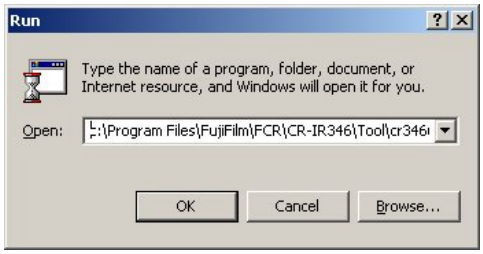
3. Start the Reader M-Utility:
   Click

.

   Click **Run...**



   Enter **c:\program files\fujifilm\fcr\cr-ir346\tool\cr346uty.exe** and click [**OK**].



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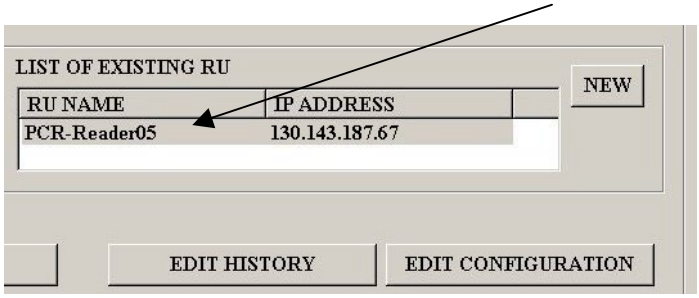
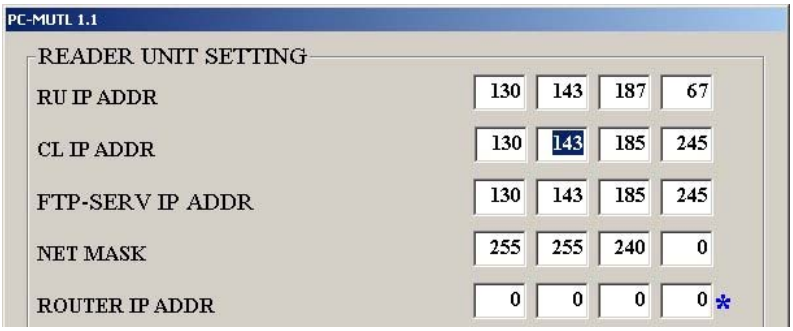
4. From the **LIST OF EXISTING RU** click the **host name** of the Reader to be set.



5. Click [**EDIT CONFIGURATION**]. The **READER UNIT SETTING** window opens.


PC-MUTL 1.1
READER UNIT SETTING
RU IP ADDR 130 143 187 67
CL IP ADDR 130 143 185 245
FTP-SERV IP ADDR 130 143 185 245
NET MASK 255 255 240 0
ROUTER IP ADDR 0 0 0 0

6. Enter the (new) IP address of the Reader for **RU IP ADDR**
   Enter the (new) IP address of the PC for **CL IP ADDR** and **FTP-SERV IP ADDR**
   Enter the (new) net mask.
   Enter an (new) address for router / gateway.

7. Click [**SET**]. The configuration is saved to hard disk of the PC and the system returns to the main menu.

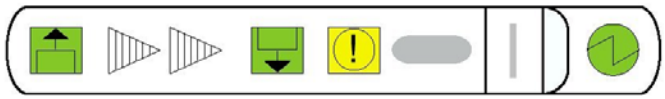
   Note: The configuration file in the FlashROM of the Reader is not updated yet. The Reader is still working with the old configuration until the next startup of the application software.

8. Click [**X**]. The system returns to the desktop screen.

9. Restart the Reader.

10. Start the Compano application program.

11. All LEDs on the RU panel come on and short beeps are generated, indicating that the Reader software and configuration data are being updated.



Caution:

While the RU panel LEDs are illuminated, never turn OFF the Reader because its CPU board may become damaged.

12. Confirm the message on the screen to update the Reader configuration.

    The Reader has now updated its configuration.

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5.4.2 Changing the IP address of the Compano PC

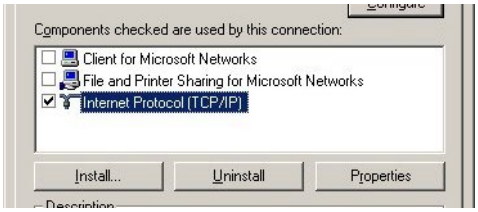
1. Right-click

and select **[Properties]**.

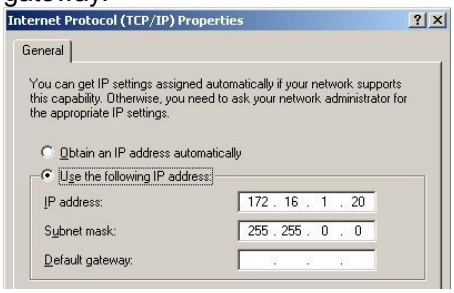
2. Right-click

and select **[Properties]**.

3. Check **Internet Protocol (TCP/IP)** , click [**Properties**].



4. Select **Use the following IP address** and enter values for IP address, net mask and (if applicable) gateway.


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
172 . 16 . 1 . 20
Subnet mask:
255 . 255 . 0 . 0
Default gateway:

5. Click [**OK**] to make changes effective.
   Depending on the selected configuration, closing the window may take some seconds. It is also possible that the system asks for a restart.

6. Click [**X**] to close the window.

Start up the Compano application and verify that the system is working properly.

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5.5 Remote Service

Remote access to the PCR Preview Unit is provided by using FTP.

Start the FTP program using the IP address of the PCR Preview Unit, e.g.: ***ftp 172.16.1.20***

User name ***cr-ir346***
Password : ***cr-ir346***

Target directories: **C:\Program Files\FujiFilm\FCR\CR-IR346**
C:\Compano

Listing the content by using the **dir** command shows a directory called **service**. This directories is a so-called virtual directory and actually mapped to **C:\Compano.**

```
Ftp> dir
200 PORT command successful.
150 Opening ASCII mode data connection for /bin/ls.
08-01-01  04:48PM       <DIR>          CDBUF
08-01-01  05:07PM       <DIR>          OLD
09-20-01  06:15PM       <DIR>          service
08-14-01  07:06PM       <DIR>          SYSTEM
08-30-01  11:37AM       <DIR>          TMP
226 Transfer complete
```

The following files can be accessed:
Log files of the reader : **SYSTEM\<readername>\LOG**
Config files of the reader: **SYSTEM\<readername>\config**
Log files of the Compano software: **service\log**

All files are text files. To look into the files download them within the FTP session by using the **get** command:
`Ftp> get <filename>`

To stop the FTP program enter: ***bye***

5.6 Error logs

The log files of the Compano application software are located here:
c:\compano\log

Within the Compano configuration program it is possible to set 5 different log levels:

1: log only FATAL errors
2: log additionally NON RECOVERABLE errors
3: log additionally USER RECOVERABLE errors
4: log errors and warnings
5: log all errors, warnings and information messages

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6 Communication with Philips Medical Systems

Problem reporting

Problems which may be related to an error in the system should be reported via e-mail, fax, phone or, if parts are to be returned, mail to **Help Desk Hamburg**:

Philips Medical Systems
Help Desk Xray Hamburg
D-22335 Hamburg
Germany

Tel. : +49 40 5078 - 2369 or 2037
Fax : +49 40 5078 - 2348
E-mail : Helpdesk.Xray.Hamburg@philips.com

Field Problem Reports should be sent as an enclosed file of an e-mail to **Help Desk Hamburg.**
Please use the program PRFORM to create FPR files. PRFORM can be downloaded from the Intranet: **http://technet.best.ms.philips.com**

NOTE: First check the FPRview database, the TechTips of PCR on the Intranet to find out if your problem is already known. Please use the Intranet frequently to check for the latest news.

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